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THE PRICES OF PREFERRED AND COMMON STOCKS: 1890–1909

Preferred shares were excluded from the index number of American stocks presented in the May issue of this Journal on the ground that they are hybrids—a cross between common stocks and bonds. Preferred shareholders have a legal claim to dividends at a certain rate before the common shareholders are allowed any return. Often this prior right is cumulative—any deficiency in the preferred dividend for earlier years must be made good from later profits before dividends can be declared on the common stock. On the other hand, all of the dividends which remain after the preferred shareholders have received their allotted rate usually go to the common shareholders, so that the latter may receive a larger dividend than the former. Further, the right of voting for directors, and hence the control of the corporation, is frequently vested in the common shareholders alone. These differences between the two kinds of stock give rise to differences in their price fluctuations. It is, therefore, desirable to keep the two kinds separate in an index number of stocks. But it is also desirable to determine the differentiating characteristics of the two sets of fluctuations, and to measure as nearly as may be the varying margin between them.

Such an investigation is best based upon the prices of preferred and common shares in the same corporations; for if preferred shares are taken in one set of companies and common shares in another set, the results reflect differences in the financial fortunes of the two sets of companies as well as differences in the business calculations affecting the two types of stock. I have, therefore, selected from transportation companies whose common stocks were included in the May article those which have preferred shares quoted regularly since 1890. Ten of the forty companies answered this description. Their names are given in Table I. All of the groups into which the railways were divided in the May article are represented here, save the coal roads. But there is only one representative each for the Atlantic and Pacific groups, two for the southern, and three each for the middle-western and northwestern groups.

TABLE I

LIST OF PREFERRED AND COMMON STOCKS INCLUDED IN THE FOLLOWING TABLES, AND
THEIR AVERAGE ACTUAL PRICES, 1890-99

	Average Pr	ICES, 1890-99	VALUE OF PRE-
	Preferred Stock	Common Stock	with Common
Chicago, Milwaukee & St. Paul	\$130.00	\$ 79.20	164%
Chicago & Northwestern	152.50	114.60	133
Cleveland, Cincinnati, Chicago			
& St. Louis	89.10	47.90	186
Denver & Rio Grande	48.80	14.90	327
Erie	41.80	17.50	239
Iowa Central	32.30	9.20	351
Lake Erie & Western	69.50	18.30	380
Missouri, Kansas & Texas	28.14	13.10	215
Norfolk & Western	38.30	12.10	317
Wabash	20.10	8.70	231

As before, the data have been taken from the *Financial Review*, and consist of 24 quotations for each stock each year—that is, the highest and lowest prices recorded for each month. These actual prices have been cast into the form of relative prices on the basis: average actual prices in 1890–99—100. Tables II, III, and IV give the arithmetic means of these relative prices by years, quarters, and months respectively. The "low"

¹ The transcriptions and computations were made by members of a class in statistics in the University of California, and verified by Mr. and Mrs. Otto Tinnemann. The minor discrepancies between the figures for months and quarters, or quarters and years, are due either to the dropping of fractions, or to the occasional lack of a quotation for some one month.

and "high" relative prices, of course, are not the extreme quotations for any one stock, but averages of the lowest and highest relative prices of all the stocks. In Tables II and III these figures are based, not on the extreme quotations for any one month, but on the average of the highest or lowest quotations for all the months in the year or quarter.

TABLE II

RELATIVE PRICES OF PREFERRED AND COMMON STOCKS IN 10 RAILWAYS: BY YEARS, 1890-1909

Average Prices 1800-00 = 100. Arithmetic Means

	Lo)W	H	СН	Spr	EAD	Avei	RAGE
	Preferred	Common	Preferred	Common	Preferred	Common	Preferred	Common
1890	104	106	113	120	9	14	108	113
1891	99	105	100	120	10	15	104	113
1892		118	119	129	8	II	115	124
1893	81	82	92	96	11	14	87	89
1894	79	77	85	87	6	10	82	82
1895		80	92	94	9	14	87	87
1896	81	76	89	86	9 8	10	85	81
1897	90	84	98	95	8	11	94	90
1898	103	91	112	102	9	11	107	97
1899	125	118	135	134	10	16	130	126
1900	128	134	138	154	10	20	133	144
1901	169	242	186	283	17	41	178	262
1902	186	290	196	320	10	30	191	305
1903	157	223	169	253	12	30	163	238
1904	152	203	161	226	9	23	156	215
1905	177	266	185	291	8	25	181	278
1906		277	185	306	10	29	180	291
1907		192	143	220	10	28	138	206
1908		182	136	208	11	26	130	195
1909	164	267	174	293	10	26	169	280

Caution should be observed in using these tables for purposes other than that for which they have been made—to compare the fluctuations in the relative prices of the two types of stock. As an index of the trend of the stockmarket, the present figures are less trustworthy than the figures published in May, because based on a smaller list of stocks. Table V shows that the relative prices of common stocks in the 10 companies included in Tables II, III, and IV differ materially from the corresponding figures for 40 common stocks. In particular, the 10 stocks have a much higher relative price in 1901 and 1902 than have the 40; and, unlike the latter, their maximum of 1902 is not equaled in 1906 or

TABLE III

RELATIVE PRICES OF PREFERRED AND COMMON STOCKS IN 10 RAILWAYS: BY

QUARTERS, 1890–1900

Average Prices 1890-99 = 100. Arithmetic Means

	ıst Q	UARTER	2D QU	ARTER	30 Qt	ARTER	4тн Q	UARTER
	Low	High	Low	High	Low	High	Low	High
1890 Preferred Common	106	I I 2 I 2 2	111	120	109	116 128	91 91	102
1891 Preferred	96	102	97	107	97	110	107	117
Common	9 7	106	99	113	102	123	122	139
1892 Preferred	118	128	113	119	109	115	104	111
Common	128	143	120	129	114	123	111	121
1893 Preferred Common	100	108 116	86 87	96	65 64	79 82	76 78	85 90
1894 Preferred	78	85	81	88	80	87	78	8 ₃
Common	76	86	80	90	77	89	76	8 ₅
1895 Preferred	72	78	84	93	93	101	83	96
Common	68	77	82	97	92	104	79	95
1896 Preferred	83	91	86	92	72	82	82	90
Common	78	88	77	86	67	78	81	92
1897 Preferred	83	90	80	87	96	108	97	107
Common	81	88	73	81	91		92	102
1898 Preferred Common	99 88	110	98 86	106 95	107 96	115	107 95	118
1899 Preferred Common	123 115	133	122 116	131	130	139	126 119	138 136
1900 Preferred Common	127 122	136	129	139	124	130	131 148	146 180
1901 Preferred	158	174	170	192	173	190	178	188
Common	202		244	298	251	296	271	298
1902 Preferred	183	191	188	197	193	203	179	192
Common	280	303	290	314	309	343	279	319
1903 Preferred	182	191	165	177	140	157	142	150
Common	284	312	234	268	185		187	205
1904 Preferred Common	145 186	153 208	142	150 196	150 200	159	168 243	181 279
Preferred Common	179	188	173	182	178	185	178	185
	271	295	247	281	270	290	276	298
1906 Preferred	181	191	172	185	174	182	172	180
Common	287	321	265	300	277	300	278	304
1907 Preferred Common	148	161 270	138	146 222	132	141 224	112 147	123
1908 Preferred Common	113	126	118	131	129	137	142 220	156 253
1909 Preferred Common	157	169 280	165	174	168 274	177 296	166 274	174 301

TABLE IV

Relative Prices of Preferred and Common Stocks in 10 Railways: by Months, 1890–1909

Average Prices 1890-99 = 100. Arithmetic Means

		18	00		90 99	18	01			18	n2	
	PREFI	ERRED		MON	Prefi		Сом	MON	PREFI			MON
	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
Jan	110	117	118	127	95	103	97	110	117	129	129	148
Feb	108 105	116	108 108	122	99 94	103 99	101 92	107	119 120	129 127	128 127	141 139
April May June	106 115 109	117 123 114	108 129 128	123 144 138	97 98 94	109 103	97 102 97	115 115 108	116 112 110	122 119 117	126 119 114	135 129 123
July Aug Sept	112 108 107	116 116 115	125 115 113	130 127 126	91 92 108	100 110 120	95 94 118	102 125 141	110 112 105	117 117 112	114 118 109	125 128 118
Oct Nov Dec	100 86 87	108 101 97	103 84 86	101 110 116	109 103 108	117 112 123	127 116 124	141 130 145	107 104 102	114 113 108	113 112 107	124 123 115
		1893				18	94			18	95	
Jan Feb March	103 101 96	113 109 103	109 103 98	121 119 109	75 78 82	83 83 89	75 80 79	86 85 92	73 72 71	80 77 79	68 67 68	77 76 78
April May June	98 83 77	104 95 88	99 84 78	100	86 80 74	92 88 83	8 ₅ 79 75	96 89 84	78 85 89	88 95 98	75 83 88	89 103 99
July Aug Sept	59 64 73	80 75 81	58 65 71	84 78 85	80 78 84	84 89 88	73 75 84	79 94 93	93 93 93	98 102 103	91 93 93	101 104 107
Oct Nov Dec	73 78 76	83 85 87	76 81 76	90 91	77 79 77	82 84 80	77 76 73	85 88 81	92 86 73	94 92	91 84 62	94 91
	'	1896				18	97			18	98	
Jan Feb March	76 85 86	86 93 94	73 83 77	84 91 87	85 85 81	90 91	82 80 79	90 84 89	102 101 93	110 114 106	93 90 81	102 103 93
April May June	88 85 84	94 92 91	78 77 77	87 83 88	78 82 83	83 87 93	71 73 77	80 78 87	93 98 104	99 108 112	79 88 93	87 97 101
July Aug Sept	72 69 76	86 77 84	65 63 72	80 73 81	88 97 105	97 110 117	81 92 99	92 112 119	105 107 109	118	94 97 97	97 112 107
Oct Nov Dec	78 87 82	86 95 90	75 85 81	86 99 90	99 93 100	110 103 106	95 86 94	99 101	102 106 113	111 117 127	89 94 101	99 106 122

TABLE IV-Continued

		189	99			19	00			19	o 1	
	Prefi	ERRED	Сом	MON	Prefi	ERRED	Сом	MON	Prefi	ERRED	Сом	MON
	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
Jan	121	133	110	131	124	132	118	129	152	167	186	219
Feb March	124	134	119 117	133	128	135 141	121 128	136 154	159	172 184	202 218	232 268
April	125	134	118	134	134	144	139	162	174	190	248	200
May	119	130	115	128	130	137	135	151	154	190	215	300
June	121	130	114	127	123	134	130	148	181	195	26 9	304
July	127	135	121	132	126	130	132	143	170	193	241	293
Aug	131	142	124	142	125	130	133	144	173	187 189	250 261	292
Sept	132	141	125	139		130	131	143	175	1 1		304
Oct Nov	130	138	121	136	124	134 144	136 148	155	175 181	186	265 283	295 303
Dec	116	137	107	135	140	160	162	214	179	188	266	294
	<u> </u>	1902		<u> </u>		19	103	1		19	04	1
_	I _	Ι.		Ι.			I			Ι.	1	<u> </u>
Jan Feb	180	189	273 280	298 306	184	191	295 292	320	152	160	195	216 206
March	185	193	288	304	181	194	265	315 299	142	152	182	203
April	187	198	201	318	172	186	252	278	140	155	100	203
May	192	202	287	311	167	179	244	276	144	151	182	192
June	196	205	294	313	162	175	207	250	139	148	176	191
July	193	202	299	327	144	165	195	241	151	160	187	203
Aug	199	208	316	346	143	161	181	227	150	163	195	226
Sept	192	206	312	356	141	156	181	215	158	166	219	241
Oct Nov	185	198	298 279	337	136	147	180 184	199	162	176	234	266 286
Dec	177	194	258	317	149	155	197	213	173	183	247	285
]		1	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>	1	<u> </u>	l	<u> </u>
		1905	1	1		19	006 	1	1	10	×7	1
Jan	176	186	261	288	182	192	290	333	165	178	252	288
Feb	181	189	274	294	181	191	286	323	160	168	244	269
March	182	190	278	302	181	190	284	306	136	159	199	252
April		187	256	298	173	188	269 260	307	139	150	211	230
May June	170	178	242	271	171	102	266	296	138	147	196	223
July	1	185	263	277	175	183	261	287	146	153	215	234
Aug	183	194	270	297	168	179	282	308	140	155	191	225
Sept	181	187	277	296	174	180	287	304	119	127	197	213
Oct		191	276	295	180	188	279	303	117	135	147	192
Nov	1	184	272	296	180	188	278	305	112	123	143	162
Dec	184	192	277	304	100	179	276	305	120	127	152	171

TABLE IV-Concluded

		10	08		1909				
	Prefi	ERRED	Соммон		PREFERRED		Соммом		
	Low	High	Low	High	Low	High	Low	High	
Jan	120	129	155	178	158	171	254	284	
Feb	95	110	140	164	149	163	243	282	
March	110	131	143	173	157	166	251	273	
April	115	124	161	181	168	177	266	292	
	109	129	175	208	165	172	272	292	
	121	130	190	211	167	179	271	298	
JulyAugSept	128	139	195	221	170	176	276	294	
	132	138	198	211	175	187	276	303	
	130	138	192	214	164	175	271	292	
Oct	134	143	200	223	169	180	287	316	
	141	157	216	260	174	183	273	294	
	151	170	244	275	167	177	279	312	

TABLE V

RELATIVE PRICES OF COMMON STOCKS IN 40 TRANSPORTATION COMPANIES AND IN THE 10 RAILWAYS LISTED IN TABLE I: BY YEARS, 1890–1909

Average Prices 1890–99 = 100. Arithmetic Means

	40 Transporta- tion Companies	10 Railways		40 Transporta- tion Companies	10 Railways
1890	121	113	1900	134	144
1891	113	113	1901	211	262
1892	123	124	1902	250	305
1893	93	89	1903	201	238
1894		82	1904	192	215
1895	85	87	1905	250	278
1896	77	81	1906	267	291
1897	84	90	1907	204	206
1898	94	97	1908	201	195
1899	128	126	1909	277	280

1909. But these divergences from the larger index number do not invalidate the accompanying comparison between the courses of common and preferred stocks.

It should also be borne in mind that the actual prices of the preferred shares rule higher than the actual prices of the common shares. Table I, which gives the average actual prices of the decade 1890–99, shows the preferred stocks selling for almost precisely $2\frac{1}{2}$ times the prices of the common. Owing to the more rapid rise of common stocks after 1900, this difference has

been reduced; but the Norfolk & Western is the only road in the list whose common shares stood higher than the preferred in 1909. This exception to the rule is due to a higher dividend on the common stock—4½ per cent., against 4 per cent. on preferred. At no time in the twenty years covered by the table have the common shares in the 10 railways had average actual prices even approximately equal to the prices of preferred shares. The higher *relative* prices of the common stocks in many years, of course, are not inconsistent with these lower actual prices.

The general trend of fluctuation in the relative prices of the two types of stock has been similar. In Table II, which gives annual averages, there are but two instances in which the changes from one year to the next have not been in the same direction for preferred and for common stock. Between 1890 and 1891 the preferred stocks fell slightly, while the common stocks showed no change; between 1905 and 1906 the preferred stocks fell one point, while the common rose 13 points. In every other case the types rose or fell together.

There are, however, notable differences of degree between the two sets of fluctuations. For the first 11 years, indeed, the relative prices keep rather close together. The maximum difference occurs in 1900 and is 11 points. But even during these years of close agreement preferred shares exhibit their characteristic greater stability in price. Common stocks start higher, fall lower, and again rise higher than preferred. Further, the "spread" between the annual averages of the lowest and highest monthly prices is always greater for common stocks.

These differences in degree of rise and fall became much wider with the great stockmarket "boom" which began in October, 1900. Since 1901 the average relative prices of the common stocks have exceeded the figures for preferred by margins never less than 59 points and in three years running beyond 100 points. That is, the preferred stocks were much less affected by the "boom" than common stocks. They rose, indeed, and rose at a rate rapid in comparison, for example, with the advance in wholesale commodity prices; but common stocks rose more rapidly still. The greater stability of preferred stocks, therefore,

stands out more clearly in the last 9 years of the table than in the first 11 years.

The reasons for this greater stability are found in the differences between the rights of preferred and common shareholders pointed out in the first paragraph. From the investor's standpoint, the prior right to dividends, often coupled with a limitation upon the maximum dividend, promises a more regular return upon purchases of preferred than upon purchases of common stock. On the other hand, common stock is the speculator's favorite, precisely because it promises wider oscillations in price, so that speculative operations doubtless enhance the differences in variableness which investment dealing would establish. Finally, contests for control usually center upon common stock, either because it alone carries voting privileges, or because it is cheaper.

Table VI, which gives the dividend record of our 10 stocks, shows that the returns upon preferred shares have, in fact, been more regular than the returns upon common shares—except, of course, when no dividends at all have been paid upon the latter.²

It is less easy to explain why common stocks advanced so much more than preferred stocks between 1900 and 1901, and why they have since retained most of the lead thus gained. But Table VI shows that the roads already paying the fixed rate of dividends on their preferred stocks in 1900 soon thereafter became able to begin or to increase the dividends on their common stocks. And Table VII, compiled from the statistical reports of the Interstate Commerce Commission, indicates that this course was the rule. Until the year ending June 30, 1901, the increase in dividends on preferred stocks had been relatively more rapid; thereafter the dividends on preferred stocks were approximately stable, while dividends on common stocks were more than doubled between 1901 and 1907. The more rapid rise of common stocks was favored also by the improvement in the physical condition of the properties, the higher earnings, the

² The data have been taken from the "Investor's Supplement" appended to the annual issues of the Financial Review, and checked by Moody's Manual. The few discrepancies between these two sources have been settled by reference to the railway reports published in the Commercial and Financial Chroniele.

TABLE VI

Dividends upon Preferred and Common Stock Declared by the Ten Railways

Listed in Table I: by Years, 1890–1909

	C.M.	& Sт.P.	C. &	N.W.	C.C.C.	& Sт.L.	D. &	R.G.	Eı	RIE.
	Pfd.	Com.	Pfd.	Com.	Pfd.	Com.	Pfd.	Com.	Pfd.	Com.
1890	7	0	7	6	5	4	2.75	0	0	0
1891	7	0	7	6	5	3	2.50	0	0	0
1892	7	2	7	6	5	3	0	0	3	0
1893	7	4	7	6	5	3	2	0	0	0
1894	7	4	7	5.5	5	0	0	0	0	0
1895	7	2	7	4	5	0	0	0	0	0
1896	7	4	7	5 5	5	0	2	0	0	0
1897	7	5	7	5	2.50	0	2	0	0	0
1898	7	5 5	7	5	5	0	2.50	0	0	0
1899	7	5	7	5	5	0	4	0	0	0
1900	7	5 6	7		5 5	3	4	0	0	0
1901	7	6	7	6	5	3.50	5	0	1.50	0
1902		7	8	7	5	4	5	0	3	0
1903	7	7	8	7	5	4	5	0	3.50	0
1904	7	7	8	7	5	4	5	0	4	0
1905	7	7	8	7	5	4	5 5 5 5	0	4	0
1906	7	7	8	7	5	4	5	0	4	0
1907	7	7	8	7	5	4	5	0	2	0
1908	7	7	8	7	5	1	5	0	0	0
1909	7	7	8	7	5	0	5	0	0	0

	Iowa C	CENTRAL	L.E.	& W.	M.K.	& T.	N. 8	z W.	Wai	BASH
	Pfd.	Com.	Pfd.	Com.	Pfd.	Com.	Pfd.	Com.	Pfd.	Com.
1800	0	0	4	0	0	0	3	0	0	0
1891	0	0	4	0	0	0	3	0	0	0
1892	I	0	4.75	0	0	0	1.50*	0	0	0
1893	0	0	5	0	0	0	0	0	0	0
1894	0	0		0	0	0	0	0	0	0
1895	0	0	5 5	0	0	0	0	0	0	0
1896	0	0	5	0	0	0	0	0	0	0
1897	0	0	5	0	0	0	1	0	0	0
1898	0	0	3 · 75	0	0	0	3	0	0	0
1899	3	0	0	0	0	0	4	0	0	0
1900	1.50	0	2	0	0	0	4	0	0	0
1901	0	0	4	0	0	0	4	2	0	0 -
1902	0	0	4	0	0	0	4	2.50	0	0
1903	0	0	4	0	0	0	4	3	0	0
1904	0	0	3	0	0	0	4	3	0	0
1905	0	0	3	0	0	0	4	3.50	0	0
1906	0	0	3	0	4	0	4	4.50	0	0
1907	0	0	3	0	4	0	4	5	0	0
1908	0	0	I	0	4	0	4	4	0	0
19 0 9	0	0	0	0	4	0	4	4.50	0	0

^{*} Plus 1 per cent. in scrip.

livelier speculative interest, and the establishment of communities of interest and purchases for control. These latter factors, not susceptible of statistical measurement, seem to have been more potent than investment considerations. For, purely on an investment basis, Table VI would not justify Northwestern common, for example, in rising between 1900 and 1902 from \$162 to \$234, while Northwestern preferred was rising from \$201 to \$254.

TABLE VII

DIVIDENDS UPON PREFERRED AND COMMON STOCKS PAID BY INTERSTATE RAILWAYS:

BY YEARS ENDING JUNE 30, 1891-1907

YEARS ENDING	Actual Di	RELATIVE DIVIDENDS *		
June 30	Preferred Stock	Common Stock	Preferred Stock	Common Stock
1891	\$16.4 millions	\$74.8 millions	82	94
1892	17.0	79 · 7	90	101
1893	17.3	83.7	87	106
1894	14.0	81.5	70	103
1895	13.0	71.4	70	90
896	16.2	71.4	81	90
897	15.8	71.3	79	90
898	21.5	$74 \cdot 7$	108	94
1899	31.1	79.9	156	101
900	35.2	104.4	177	132
1901	41.7	115.0	209	145
1902	44.0	141.4	221	178
1903	44.5	152.2	223	192
1904	46.2	175.7	232	222
1905	49.1	188.9	246	238
1906	51.6	221.2	259	279
1907	49 · 7	258.4	249	326

^{*} Average actual dividends, 1891-1900=100.

The tables which give relative prices by quarters and by months show the same facts in greater detail. The "spread" between the highest and lowest quotations for a month is almost always less for preferred than for common stocks, and the fluctuations from one month to the next are more moderate in the case of preferred. The great panics of 1893 and 1907, also, depressed the prices of preferred stocks relatively less, as the great speculative campaigns for the rise elevated them less. But the figures tell their own story with sufficient clearness.

In conclusion, it may not be amiss to show what effect is produced by putting preferred and common shares together in

the same index number. Table VIII gives first the index number of 40 common stocks as published in the May issue of this *Journal;* second the index number of 10 preferred stocks from Table II; and third an index number of the two sets in combination. The composite series shows a slightly smaller

TABLE VIII

RELATIVE PRICES OF 40 COMMON STOCKS AND OF 10 PREFERRED STOCKS IN TRANSPORTATION COMPANIES: BY YEARS, 1890–1909

Average Actual Prices 1800–09 = 100. Arithmetic Means

	40 Common Stocks	10 Preferred Stocks	50 Common and Preferred Stocks
1890	121	108	118
1891	113	104	III
1892	123	115	121
1893	93	87	92
1894	82	82	82
1895	85	87	86
1896	77	85	79
1897	84	94	86
1898	94	107	97
1809	128	130	129
1900	134	133	134
1901	211	178	204
1902	250	101	238
1903	201	163	193
1904	192	156	185
1905	250	181	236
1906	267	180	250
1907	204	138	191
1908	201	130	187
1909	277	169	255

fall from 1890 to 1896, and a decidedly smaller rise after 1900. Despite the larger number of securities entering into the composite series, it is less significant than the index number for 40 common stocks, not only because of the mixing of two types which the preceding tables show to be different in important respects, but also because of the double weighting of the ten railways for which both kinds of stock are included.

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